Name:

at1113exam: Expand, factor, and solve quadratics (v316)

1. Expand the following expression into standard form.

$$(7x + 5)(7x - 5)$$

2. Solve the equation.

$$(2x - 9)(4x + 7) \;=\; 0$$

3. Expand the following expression into standard form.

$$(4x - 5)(7x - 6)$$

4. Expand the following expression into standard form.

$$(4x - 7)^2$$

5. Factor the expression.

$$49x^2 - 9$$

6. Solve the equation with factoring by grouping.

$$15x^2 + 20x + 18x + 24 \;=\; 0$$

7. Solve the equation.

$$9x^2 - 32x \;=\; 2x^2 - 3x - 4$$

8. Factor the expression.

$$x^2 + 7x - 18$$